



No.	CF-2005-21R1	1/1
Issue Date	23 November 2005	

AIRWORTHINESS DIRECTIVE

The following airworthiness directive (AD) may be applicable to an aircraft which our records indicate is registered in your name. ADs are issued pursuant to **Canadian Aviation Regulation (CAR) 593**. Pursuant to **CAR 605.84** and the further details of **CAR Standard 625, Appendix H**, the continuing airworthiness of a Canadian registered aircraft is contingent upon compliance with all applicable ADs. Failure to comply with the requirements of an AD may invalidate the flight authorization of the aircraft. Alternative means of compliance shall be applied for in accordance with **CAR 605.84** and the above-referenced **Standard**.

This AD has been issued by the Continuing Airworthiness Division (AARDG), Aircraft Certification Branch, Transport Canada, Ottawa, telephone 613 952-4357.

Number: CF-2005-21R1

Subject: Rudder Balance Spring Assembly

Effective: 12 December 2005

Revision: Supersedes Airworthiness Directive CF-2005-21 issued 23 June 2005

Applicability: Bombardier Inc. Models:

CL-600-1A11 Serial numbers 1004 through 1085
 CL-600-2A12 Serial numbers 3001 through 3066
 CL-600-2B16 Serial numbers 5001 through 5194
 CL-600-2B16 Serial numbers 5301 through 5564

Compliance: Within twelve months of the effective date of this directive, unless already accomplished.

Background: The rudder balance spring assembly, which is intended to position the rudder close to its neutral position in case of a rudder aft linkage disconnect, may not have the correct pre-load on some aircraft. Excessive rudder deflections may occur, reducing the controllability of the aircraft. No in-service problems have ever been reported with rudder aft linkage disconnect. A new adjustable balance spring assembly is being introduced to correct this potential problem.


This directive has been revised to amend the applicability for the CL-604 aircraft.

Corrective Actions:

- In accordance with the instructions of the applicable service bulletin (SB) listed in paragraph 2 below or later revisions of the applicable service bulletin, approved by Chief, Continuing Airworthiness, Transport Canada, accomplish the following:
 - Modify the rudder balance spring assembly; and
 - Perform the rigging of the adjustable rudder balance spring assembly.
- Applicable Service Bulletins:

CL-600-1A11 (CL-600)	SB 600-0714 dated 04 April 2003
CL-600-2A12 (CL-601)	SB 601-0549 dated 04 April 2003
CL-600-2B16 (CL-601-3A/3R)	SB 601-0549 dated 04 April 2003
CL-600-2B16 (CL-604)	SB 604-27-013 dated 04 April 2003

Authorization: For Minister of Transport


 for B. Goyaniuk
 Chief, Continuing Airworthiness

Contact: Mr. Ian McLellan, Continuing Airworthiness, Ottawa, telephone 613 952-4362, facsimile 613 996-9178 or e-mail mcllelli@tc.gc.ca or any Transport Canada Centre.

Pursuant to **CAR 202.51** the registered owner of a Canadian aircraft shall, within seven days, notify the Minister in writing of any change of his or her name or address.

To request a change of address, contact the **Civil Aviation Communications Centre (AARC)** at Place de Ville, Ottawa, Ontario K1A 0N8, or 1-800-305-2059, or www.tc.gc.ca/civilaviation/communications/centre/address.asp

